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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

INSTRUCTIONS

1. General – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not listed, describe and report them in the "Cost of all other materials . . ." line at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . .," Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

3. Contract Work – Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 10, line e, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

4. Resales – Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in item 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."

2. Valuation of Materials Consumed – The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Line No.	Materials, parts, and supplies		Census material code	Consumption of purchased materials and of materials received from other establishments of your company			
				Cost, including delivery cost (freight-in)			
				(E)			
	(A)	(B)	574	Thou-	Dollars		
			Millions	sands			
1	FABRICATED METAL PRODUCTS (Except forgings and castings)	Pipe	349008 3	\$			
2		Valves and pipe fittings	349409 3				
3		Parts specially designed for steel power boilers, not elsewhere classified	344309 0				
4		All other fabricated metal products	340066 0				
5	CASTINGS (Rough and semifinished)	Iron and steel	332001 7				
6		Aluminum and aluminum-base alloy	336005 4				
7		Other nonferrous	336003 9				
8	Forgings		346000 3				
9	Shapes and Forms (Except castings, forgings, and fabricated metal products)	STEEL	Bars and bar shapes (except concrete reinforcing bars)	331064 6			
10			Concrete reinforcing bars	331009 1			
11			Sheet and strip	331022 4			
12			Plates	331082 8			
13			Structural shapes (except sheet pilings)	Wide flange beams	331040 6		
14				All other structural shapes	331052 1		
15				All other shapes and forms (including sheet pilings)	331039 8		
16			(Continued on next page)	Nonferrous refinery shapes	333002 4		

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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued							
Line No.	Materials, parts, and supplies (A)			Census material code (B)	Consumption of purchased materials and of materials received from other establishments of your company		
					Cost, including delivery cost (freight-in) (E)		
				571	574	Thou-	Dollars
				Millions	sands		
17	Shapes and Forms (Except castings, forgings, and fabricated metal products) – Continued	COPPER AND COPPER-BASE ALLOY	Pipe and tube	335152 5	\$		
18			All other shapes and forms	335190 5			
19		ALUMINUM AND ALUMINUM-BASE ALLOY	Sheet, plate, foil, and welded tubing	335301 8			
20			All other (including wire, rolled rod and bar, powder, etc.) and extruded shapes (including extruded rod, bar, pipe, tube, etc.)	335011 3			
21		All other nonferrous shapes and forms	335043 6				
22	Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products			285101 2			
23	Welding electrodes			354800 5			
24	Cost of all other materials and components, parts, containers, and supplies consumed <i>Describe the principal materials, etc. included in this value.</i>			970099 8			
25	TOTAL Sum of lines 1–24 should equal item 10, line a				\$		

Item 18A. Not applicable to this report

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997

INSTRUCTIONS

1. General – The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Products – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

3. Contract Work – Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.

4. Resales – Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."

Line No.	Products and services (A)			Census product code (B)	Products shipped and other receipts			
					Value, f.o.b. plant (E)			
				581	583	584	Thou-	Dollars
				Quantity (Short tons) (D)	Millions	sands		
1	Fabricated Structural Metal for Buildings (34411)	IRON AND STEEL	Industrial	34411 41 3				
2			Commercial	34411 42 1				
3			Residential	34411 43 9				
4			Institutional, medical, and religious	34411 44 7				

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued

Line No.	Products and services (A)		Census product code (B)	Products shipped and other receipts				
				Quantity (Short tons) (D)	Value, f.o.b. plant (E)			
			581		583	584	Thou-	Dollars
				Millions	sands			
5	Fabricated Structural Metal for Buildings – Continued (34411)	IRON AND STEEL – Continued Public and educational	34411 46 2		\$			
6		Public utilities	34411 47 0					
7		Aluminum	34411 71 0					
8	Fabricated structural metal for bridges (34412)		34412 00 7					
9	Other Fabricated Structural Metal (34413)	IRON AND STEEL For ships, boats, and barges	34413 16 1					
10		For transmission towers, substations, radio antenna towers, and supporting structures	34413 20 3					
11		For offshore oil and gas platforms	34413 23 7					
12		For tunneling and subway work	34413 26 0					
13		For aerospace and defense	34413 29 4					
14		Other fabricated structural iron and steel (including dam locks and dam gates; excluding pressure vessels, and storage tanks, fabricated reinforcing bars, bar joists, fabricated metal buildings, steel flooring, and roof decks)	34413 59 1					
15		Aluminum for ships, boats, barges, transmission towers, and other structures (excluding tanks, fabricated metal buildings, etc.)	34413 84 9					
16		Structural metal, other than iron, steel, or aluminum	34413 98 9					
17	Heat Exchangers and Steam Condensers (Except for nuclear applications) (34431)	HEAT EXCHANGERS, CLOSED TYPES, INDUSTRIAL Bare tube	34431 13 0					
18		Fin tube	34431 18 9					
19		Steam condensers	34431 55 1					
20	Fabricated Steel Plate (Stacks and weldments) (Except heat exchangers, steel power boilers; gas cylinders; nuclear reactor steam supply systems; metal tanks and vessels; metal barrels, drums, and pails; and metal pallets) (34432)	Shielding for use in nuclear reactor buildings	34432 21 1					
21		Pipe, penstocks, tunnel lining, stacks, and breeching	34432 36 9					
22		CONTAINERS (Trash and other) STEEL PLATE	Less than 13 gallons	34432 44 3				
23			13 gallons to 79 gallons	34432 46 8				
24			More than 79 gallons	34432 48 4				
25		SOUND CONTROL EQUIPMENT	Jet engine test facilities (including hush houses, demountable run-up silencers, demountable test cells, etc.)	34432 52 6				
26			Gas turbine sound systems (enclosed) (including natural gas compression, electric generation, marine propulsion, etc.)	34432 54 2				
27	Other (including sound panels, one piece enclosures, industrial silencers, and air ducts silencers)		34432 56 7					
28	Metal cooling towers		34432 97 1					
29	Weldments and fabricated steel plate for other purposes		34432 99 7					

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued

Line No.	Products and services (A)			Census product code (B)	Products shipped and other receipts				
					Quantity (Short tons) (D)	Value, f.o.b. plant (E)			
						584	Thou-	sands	Dollars
					583	Millions			
30	Steel Power Boilers, (Stationary and Marine) Parts, and Attachments (Except nuclear applications) (34433)	WATER TUBE	10,000 lb/hr or less 15 PSI steam working pressure or less		34433 08 6		\$		
31			More than 15 PSI steam working pressure	100,000 lb/hr or less	Saturated	34433 31 8			
32					Super heated	34433 32 6			
33			100,001 lb/hr or more	Saturated	34433 33 4				
34				Super heated	34433 36 7				
35			Other water tube (including 10,001 lb/hr or more with 15 PSI steam working pressure or less)			34433 39 1			
36		FIRE TUBE	Horizontal return tubular			34433 42 5			
37			Firebox			34433 43 3			
38			Scotch type pressure			34433 45 8			
39			Vertical and other fire tube type			34433 48 2			
40			Other steel power boilers (stationary and marine) (except nuclear applications)			34433 51 6			
41		Parts and attachments for steel power boilers, sold separately			34433 52 4				
42		Gas Cylinders (34434)	Seamless, ferrous and nonferrous			34434 14 2			
43	Welded, ferrous and nonferrous			34434 16 7					
44	Metal Tanks Complete at Factory (Standard line pressure) (34435)	Liquefied petroleum gas tanks (all types), ferrous and nonferrous			34435 20 6				
45		Air receivers, ferrous and nonferrous			34435 35 4				
46		Other pressure tanks (including anhydrous ammonia tanks, but excluding range boilers, expansion tanks, hot-water storage tanks, and tanks for water heater sold separately), ferrous and nonferrous			34435 42 0				
47	Nuclear reactor steam supply systems (including primary vessels and tanks) (sold separately); heat exchangers and condensers (sold separately); pressurizers, components, and auxiliary equipment (sold separately), ferrous and nonferrous				34436 00 6				
48	Metal Tanks Complete at Factory (Standard line non-pressure) (34437)	STORAGE TANKS	4,000 gallon capacity or less	Ferrous	34437 12 9				
49				Nonferrous	34437 15 2				
50			More than 4,000 gallon capacity	Ferrous	34437 17 8				
51				Nonferrous	34437 19 4				
52		OTHER NON-PRESSURE TANKS (Including tanks for trailers, metal septic tanks, and truck tanks, for delivery of fluids)	Ferrous			34437 48 3			
53			Nonferrous			34437 50 9			

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued

Line No.	Products and services (A)				Census product code (B)	Products shipped and other receipts			
						Quantity (Short tons) (D)	Value, f.o.b. plant (E)		
							584	Thou-	sands
		Millions							
54	Metal Tanks and Vessels, Custom Fabricated at the Factory (34438)	PRESSURE VESSELS AND TANKS (More than 24 in. outside diameter and not less than 5 cu ft capacity) (Excluding liquefied petroleum gas)	Ferrous	Refineries, chemical plants, and paper mills	34438 03 6				
55				Other processing industries	34438 05 1				
56			Nonferrous process vessels, tanks, and kettles for refineries, chemical plants, and paper mills	34438 08 5					
57			Liquefied petroleum gas tanks, ferrous and nonferrous	34438 13 5					
58			ALL OTHER TANKS AND VESSELS, CUSTOM FABRICATED AT THE FACTORY (Including anhydrous ammonia tanks)	Ferrous		34438 20 0			
59	Nonferrous	34438 22 6							
60	Metal Tanks and Vessels, Custom Fabricated and Field Erected (34439)	BULK STORAGE TANKS	Elevated type	Ferrous	Dry materials	34439 15 8			
61					Water	34439 17 4			
62				Other liquids	34439 19 0				
63				Nonferrous	34439 23 2				
64			Ground storage type	Ferrous	Dry materials	34439 31 5			
65					Petroleum products	34439 32 3			
66				Water	34439 33 1				
67				Other	34439 34 9				
68	Nonferrous	34439 36 4							
69	PRESSURE VESSELS AND TANKS (Including gas holders and process vessels, tanks, and kettles)	Ferrous	Refineries, chemical plants, and paper mills	34439 51 3					
70			Other processing industries	34439 53 9					
71		Nonferrous	34439 58 8						

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued							
Line No.	Products and services (A)		Census product code 581	Products shipped and other receipts			
				Quantity (Short tons) 583	Value, f.o.b. plant (E)		
			(B)		(D)	584 Millions	Thou-sands
72	STEEL SHEET METAL WORK	Air-conditioning ducts, including dust collecting ducts	34441 21 2		\$		
73		Metal roofing (all types)	34444 11 7				
74		Metal siding	34445 16 3				
75		All other steel sheet metal work	34449 62 9				
76	Stairs, Railings, Fences, and Gates (Other than wire)	Iron and steel stairs, staircases, and fire escapes	34462 10 1				
77		FENCES AND GATES (OTHER THAN WIRE)	Iron and steel	34462 20 0			
78			Aluminum	34462 22 6			
79		Iron and steel open flooring and grating for building construction	34463 10 9				
80		Suspended scaffolding, including midpoint, two-point, multilevel, suspended, boatswain chairs, etc. (iron, steel, and aluminum)	34464 10 7				
81	OTHER ARCHITECTURAL AND ORNAMENTAL WORK	Iron and steel	34465 10 4				
82		Aluminum	34465 12 0				
83		Industrial and commercial prefabricated metal building systems, excluding farm service buildings, residential buildings, and parts for prefabricated buildings	34481 15 0				
84	FABRICATED BAR JOISTS	Short span (open web)	34494 43 5				
85		Long span	34494 47 6				
86		Metal plaster base accessories, including corner beads, screeds, grounds, etc.	34496 32 3				
87		Carbon steel custom roll form products	34498 11 3				
88		Iron and steel fabricated pipe and pipe fittings made from purchased pipe	34980 13 6				
89		Other fabricated metal products, n.e.c. (including chests, metal ironing boards, and metal memorial tablets and grave markers)	34998 98 9				
90		Receipts for machine shop job work (machining of material owned by others)	35995 00 0				
91	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	<i>Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. For all remaining products, write "Other" and report a single total value.</i>	18				
92			26				
93			34				
94			42				
95			59				
96			67				
97	CONTRACT WORK	Receipts for work done for others on their own materials <i>Describe below products worked on and kind of work.</i>	93000 00 8				

